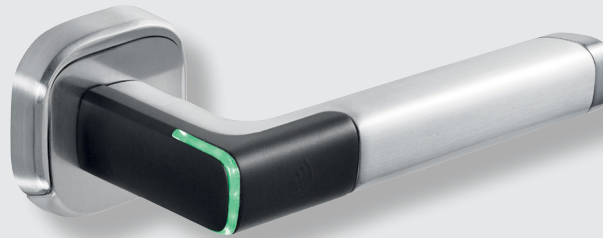


access



Product Reference Guide
April 2024



www.controlsoft.com

controlsoft[®]
access control

Price: £
 Credentials: **Cards or Keyfobs**
 Security: **None/Low**

* Aperio unavailable with this option except DLI00

Price: ££
 Credentials: **Cards, Keyfobs or Mobile**
 Security: **High**

STEP 1 Choose your Credentials	 ISO Card Sales Code: AC-7100			 Keyfob Sales Code: AC-7101			 ISO Smart Card Sales Code: IA-CRD				 Smart Keyfob Sales Code: IA-FOB		 Mobile Credential Sales Code: SUB-T100	
STEP 2 Choose your Readers	 Mullion / Oval Sales Code: AC-1200	 Vandal Resistant Sales Code: AC-1201	 Panel Mount Sales Code: AC-1202	 Backbox Sales Code:RX-100	 Keypad Sales Code: RX-1K00	 Mullion Sales Code: RX-400	 Signo Mullion Sales Code: 20NKs-02		 Signo Mullion Keypad Sales Code: 20KNKS-02		 Signo Wallswitch Sales Code: 40NKs-02		 Signo Wallswitch Keypad Sales Code: 40KNKS-02	
STEP 3 Choose your Controllers	 1 Door, PCB Only Sales Code: 1DR-PCB			 1 Door, Metal Box 2A PSU Sales Code: 1DR-ACU		 1 Door, Metal Box PoE+ PSU Sales Code: 1DR-POE								
STEP 4 Choose your Software	 Lite. Free download from website			 Professional Sales Code: IA-PRO		 Enterprise Sales Code: IA-ENT		OPTIONAL  USB Enrolment Reader Sales Code: IA-DTR						

Part Numbers	Lite	Professional	Enterprise
One-time Purchase	IA-LITE	IA-PRO	IA-ENT
Annual Subscription	SUB-LITE	SUB-PRO	SUB-ENT
Features			
Maximum Number of Doors or Readers	12	64	UNLIMITED
Unlimited Number of Cardholders	■	■	■
Group Management	■	■	■
Real Time Access and Alarms Events Viewers	■	■	■
Employee, Visitor and Contractor Management	■	■	■
Unlimited Number of Client PCs	■	■	■
Support for OSDP Readers	■	■	■
Support for ASSA ABLOY APERIO Wireless Locks	■	■	■
Controller, Door and Report Wizards	■	■	■
Time Zone to Schedule Group, Door & PIN Pad operation	■	■	■
Issue Temporary Cards	■	■	■
Multiple Sites	■	■	■
User On Site / Off Site Counter	■	■	■
Operator Software Door Control	■	■	■
Configurable User Data Fields	■	■	■
Display User's Photo on Card Swipe	■	■	■
Microsoft SQL Database Platform	■	■	■
Snow Day Rule	■	■	■
Photo ID Card Printing*	■	■	■
Bulk Card Upload	■	■	■

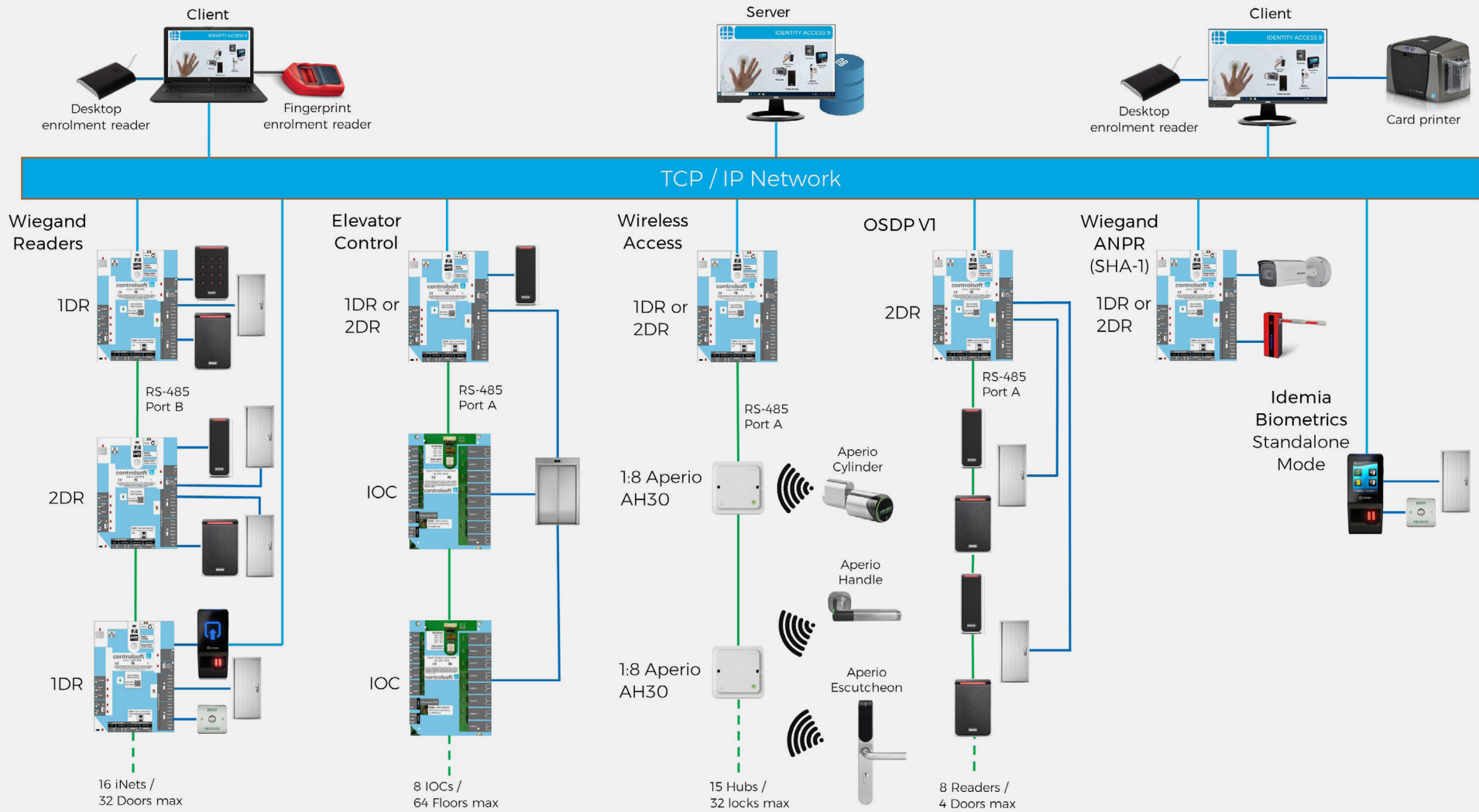
*Badge printing requires an Asure ID license per PC (Ordering Part No. IA-AID).

Features	Lite	Professional	Enterprise
Site Lockdown	X	■	■
Wiegand ANPR Integration (SHA-1 26-bit)	X	■	■
Fire Alarm Roll Call Report	X	■	■
Time & Attendance Reporting	X	■	■
Fingerprint Enrolment	X	■	■
Direct Integration with Morpho Biometric readers	X	■	■
Email Notifications	X	■	■
AntiPassBack	X	■	■
Preconfigured Logic for Airlocks and Turnstiles	X	■	■
Elevators	X	■	■
Counters and Timers	X	■	■
Programmable Inputs and Outputs	X	■	■
Interactive Site Maps	X	■	■
Events and Actions	X	■	■

Minimum System Requirements

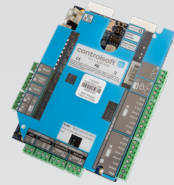
Server	Client	Supported Operating Systems
Intel i5 processor @ 3GHz	Intel i3 processor @ 3GHz	Windows 10 Home or Pro (x64)
8GB RAM	4GB RAM	Windows 11
100GB Free Disk Space	100GB Free Disk Space	Windows Server 2012 R2
10/100 Network Card	10/100 Network Card	Windows Server 2016
USB Port	USB Port	Windows Server 2019
Screen Resolution = 1280 x 800 or higher	Screen Resolution = 1280 x 800 or higher	Windows Server 2022

Identity Access Server / Client Configuration

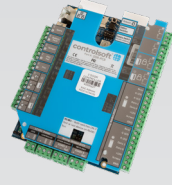


Identity Access Configuration

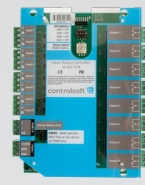
iNet™ Networked Access Control Units



iNet™ One Door Control Unit



iNet™ Two Door Control Unit



iNet I/O Expansion Board

Web Browser Interface (Read only)	Yes	Yes	No
TCP/IP	Yes	Yes	No
RS485	Yes	Yes	Yes
Power Requirements	120mA @ 12VDC	120mA @ 12VDC	20mA @ 12VDC
Maximum Cardholders	200,000	200,000	N/A
Maximum Event History Buffer	250,000	250,000	N/A
Maximum Schedules	63	63	N/A
Maximum Wiegand Readers	2	2	N/A
Inputs	5	9	8
Outputs	2	4	8
PCB Dimensions (mm)	175 x 138 x 25	175 x 138 x 25	175 x 138 x 25
Warranty		3 Years	

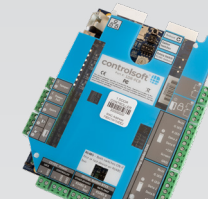
MAXIMUM NUMBER OF RS485 DOWNSTREAM DEVICES

iNet Controllers	15	15	N/A
IOC Expanders	15	15	N/A
AC-3151 Expanders (Discontinued)	0	15	N/A
AC-1100 Readers	2	8(Master) or 2(Downstream)	N/A
HID OSDP Readers	2	8(Master) or 2(Downstream)	N/A

Restrictions apply on certain combinations, see iNet manual for details

PART NUMBERS

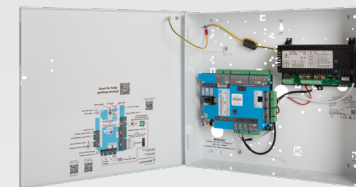
PCB Only	1DR-PCB	2DR-PCB	IOC-PCB
Metal housing with 2A PSU	1DR-ACU	N/A	IOC-ACU
Metal housing with 4A PSU	N/A	2DR-ACU	N/A
Metal housing with 3A Smart POE++	1DR-POE	2DR-POE	IOC-POE



PCB Only

Dimensions: 175 x 138 x 25mm

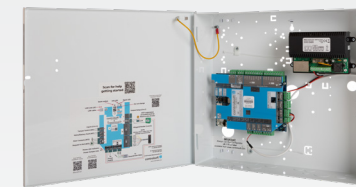
Weight: 0.35Kg



Metal Housing with PSU

Dimensions: 380 x 335 x 95mm

Weight: 3.6Kg



Metal Housing with PoE

Dimensions: 380 x 335 x 95mm






Weight: 3.6Kg

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HID Signo Readers

	 Signo 20	 Signo 20K	 Signo 40	 Signo 40K	 OMN-5427-CK
Wiegand	■	■	■	■	×
OSDP (RS485)	■	■	■	■	×
Mobile Access	■	■	■	■	BLE version
Pigtail or Terminal Option	■	■	■	■	USB
Tamper	■	■	■	■	×
Indoor and Outdoor Use	■	■	■	■	Indoor Only
Black & Silver Finish	■	■	■	■	Black
Dimensions (mm)	45 x 121.5 x 19.5	45 x 121.5 x 21.5	80 x 121.5 x 19.5	80 x 121.5 x 21.5	95 x 70 x 20
Weight (g)	95	110	140	160	135
Power Requirements	12Vdc ± 15%				USB
Current Requirements (mA)	70 (250mA peak)	75 (250mA peak)	75 (250mA peak)	80 (250mA peak)	N/A
Read Range (mm)	40 to 100 (13.56MHz), 60 to 100 (125KHz)				40 to 70
Warranty	Limited Lifetime				2 years

HID Signo Readers

Credential Profiles

Communication Type	NFC/BLE	High Frequency											Low Frequency			
Credentials Technologies Supported	Seos (Mobile IDs via NFC/BLE)	Seos	iCLASS SE	iCLASS SR	iCLASS	MIFARE DESFire EV1/EV2/EV3 (SIO)	MIFARE Classic (SIO)	MIFARE DESFire EV1/EV2/EV3 (CSN)	MIFARE Classic (CSN)	MIFARE DESFire EV1/EV2/EV3 (Custom Data)	MIFARE Classic (Custom Data)	FeliCa Idm	CEPAS (CAN or UID)	125kHz HID Proximity	125kHz Indala Proximity	125kHz EM4102 Proximity

Regular Options



00 = Standard Profile	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
01 = Seos Profile	■	■	×	×	×	×	×	×	×	×	×	×	×	×	×	×
02 = Smart Profile	■	■	■	■	■	■	■	×	×	×	×	×	×	×	×	×
03 = Custom Profile	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Signo options and ordering part codes

Reader Model	Wiring Connections	Body Colour	Trim Colour		Credential Profile		Configuration Option
20 = Mullion 20K = Mullion with keypad 40 = Wall Switch Mount 40K = Wall Switch Mount with keypad	N = Pigtail T = Terminal Strip	K = Black W = White	S = Silver	–	00 = Standard Profile 01 = SEOS Profile 02 = Smart Profile 03 = Custom Profile	–	000000 000000 000000 000000





All Signo readers can be configured using the Reader Manager app, available from the App Store (Apple devices) or Google Play (Android devices)

aperio® Wireless Readers

	 Cylinder (C100)	 Escutcheon (E100)	 Handle (H100)	 Monitored Handle / Lock Set (L100)	 Server Cabinet Lock (KS100)	 Locker/Cabinet Lock (KL100)	 Deadlatch with Card Reader (DL100)
Part Number	AP-50520190-	AP-5001-	AP-H100-	AP-AL560-	AP-KS100	AP-KL100	AP-DL100-BIPS
Technology	SEOS / iCLASS / MIFARE / DESFire						As others + 125KHz
Mobile Access	No	Yes	Yes	Yes	Yes	No	Yes
Read Range (mm)		30		10	30	40	40 to 100
Dimensions (mm)	Euro Profile Cylinder	40 x 315 x 20	87 x 87 x 21	54 x 350 x 21	25 x 150	82.5 x 63 x 58.5 82.5 x 63 x 75	45 x 121.5 x 19.5
Weight	250g	1.5Kg	500g	1.7Kg	500g	250g	95g
Power Requirements	Lithium Battery						
Warranty	2 years (Electronics), 1 Year (Mechanics)						

* The L100 can be used Outdoors providing that the door opens INTO the building.



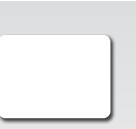
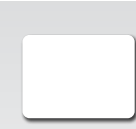
aperio® Ancillaries

	 Wiegand 1:1 Hub	 RS485 1:8 Hub	 External Antenna	 Aperio Dongle
Part Number	AP-AH20-WIESTD_G5	AP-AH30-RS485_G5	AP-500ZB-EXTANT-00	AP-500ZB-RD-USB-00
Dimensions (mm)	82 x 82 x 37	82 x 82 x 37	N/A	40 x 20 x 10
Weight	75g	75g	N/A	10g
Power Requirements	8 – 24V dc	8 – 24V dc	N/A	USB
Output Format	Wiegand	RS485	N/A	Wireless
Warranty	2 years (Electronics), 1 Year (Mechanics)		N/A	1 Year

HID iCLASS - Cards / Tags

											
	iCLASS 2K (2K/2)	iCLASS 32k (16k/2, 16k/1)	iCLASS 32k (16k/1, 16k/16)	iCLASS 2K SE (2K/2)	iCLASS 32k SE (16k/2, 16k/1)	iCLASS 32k SE (16k/1, 16k/16)	HID MIFARE 1K SE	HID MIFARE 4K SE	HID DESFire EV3 8K SE	iCLASS SEOS 8K	iCLASS SEOS 16K
Clamshell	HID-2080	N/A	N/A	HID-3350	HID-3353	HID-3354	N/A	N/A	N/A	N/A	N/A
ISO	HID-2000	HID-2003	HID-2004	HID-3000	HID-3003	HID-3004	HID-3400	HID-3406	HID-801	HID-5006	HID-5005
Keyfob	HID-2050	HID-2053	HID-2054	HID-3250	HID-3253	HID-3254	N/A	N/A	N/A	N/A	N/A
Sticker Tag	HID-2060	HID-2063	HID-2064	HID-3300	HID-3303	HID-3304	N/A	N/A	N/A	N/A	N/A
Warranty	Lifetime										

NXP MIFARE DESFire - Cards / Tags




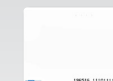
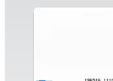
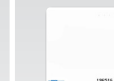
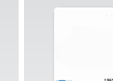

				
	MIFARE 1K	MIFARE 4K	DESFire EV2 8K	DESFire EV3 8K
ISO	AC-7140	AC-7141	AC-7181	AC-7183
Keyfob	AC-7145	AC-7146	N/A	N/A
Warranty	Lifetime			

For EV1 use suffix, e.g. AC-7180-EV1


HID Mobile Credentials

SUB-T050	Essentials – Mobile Credential, Annual Subscription (Min Qty = 20)	
SUB-T053	Essentials – Mobile Credential, 3 Year Subscription (Min Qty = 20)	
SUB-T100	Mobile Phone Credential, Annual Subscription (Min Qty = 20)	
SUB-T103	Mobile Phone Credential, 3 Year Subscription (Min Qty = 20)	







HID Combination Cards

								
	HID Prox/iCLASS 2K	HID Prox/iCLASS 32K	HID Prox/Mifare 1K	HID Prox/Mifare 4K	HID Prox / DESFire EV3 8K	HID iCLASS 32K / MIFARE 1K	HID Prox/iCLASS SEOS 8K	HID Prox/iCLASS SEOS 16K
ISO	HID-2120	HID-2123/2124	HID-1431	HID-1441	HID-810	HID-2420	HID-5106	HID-5105
Warranty	Lifetime							








Controlsoft® Proximity (125KHz) - Readers

								
	Desktop Reader	RS485 Prox	Prox Reader	Vandal Prox	Panel Mount Prox	Mullion Reader	Backbox Reader	Pin & Prox Reader
Part Number	IA-DTR	AC-1100	AC-1200	AC-1201	AC-1202	RX-400	RX-100	RX-1K00
Read Range (mm)	40-70	80	80	80	80	100	120	120
Dimensions (mm)	95 x 70 x 20	120 x 42 x 22	120 x 42 x 22	93 x 93 x 26	60 x 60 x 16	96 x 52 x 21	87 x 87 x 21	87 x 87 x 21
Weight	135g	150 g	150 g	800g	150 g	90g	120	125g
Power Requirement	USB	12Vdc	12Vdc	12Vdc	12Vdc	5 - 16Vdc	5 - 16Vdc	5 - 16Vdc
Current Requirement	N/A	100 mA	100 mA	100 mA	100 mA	250mA typical	250mA typical	250mA typical
Termination	USB Cable	Terminal Strip	Pigtail	Pigtail	Pigtail	Terminal Strip	Terminal Strip	Terminal Strip
Output Format	USB	RS485	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand
Indoor/Outdoor	Indoor	Both	Both	Both	Both	Both	Both	Both
Additional Technologies	N/A	N/A	N/A	N/A	N/A	MIFARE (RX-480)	MIFARE (RX-180)	MIFARE (RX-1K80)
Colour	Black	Black	Black	Stainless Steel (316)	N/A	Black	Black	Black
Warranty	2 Years	2 Years	2 Years	2 Years	2 Years	5 Years	5 Years	5 Years

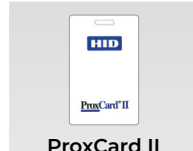

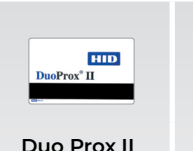
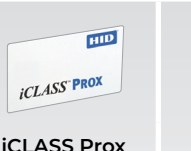

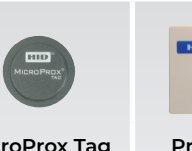

Controlsoft® Proximity (125KHz) - Cards / Tags

						
	Clamshell	ISO Prox	ISO Mag Prox	Keyfob	Thin Keyfob	Sticker Tag
Part Number	AC-7080	AC-7100	AC-7130	AC-7101	AC-7102	AC-7103
Magnetic Stripe	No	No	Yes	No	No	No
Printable	No	Yes	Yes	No	No	No
Slot Punch	Vertical	Optional	Optional	No	No	No
Warranty	Lifetime					





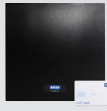


HID Proximity (125KHz) - Readers

									
	Desktop Reader	ProxPoint Plus	MiniProx	Thinline II	ProxPro	ProxPro with Keypad	ProxPro II	EntryProx	MaxiProx
Part Number	OMN-5427-CK	HID-6005	HID-5365	HID-5395	HID-5355	HID-5355K	HID-5455	HID-4045	HID-5375
Output Format	USB	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand / Clock and Data	Standalone/Wiegand	Wiegand
Read Range	40 to 70 mm						205 mm	40 to 70 mm	
Dimensions (mm)	95 x 70 x 20	80 x 45 x 15	150 x 45 x 20	120 x 75 x 15	125 x 125 x 25	125 x 125 x 25	127 x 127 x 25.4	135 x 70 x 35	305 x 305 x 25
Weight	135g	100 g	225 g	210 g	275 g	275 g	275 g	335 g	1440 g
Power Requirement	USB	5 - 16 VDC	5 - 16 VDC	5 - 16 VDC	10 - 28.5 VDC	10 - 28.5 VDC	5 - 16 VDC	10 - 15 VDC	12 / 24 VDC
Current Requirement	N/A	35 mA	35 mA	35 mA	155 mA	155 mA	125 mA	150 mA	200 mA
Termination	N/A	Pigtail	Pigtail or Terminal Strip	Pigtail	Pigtail	Terminal Strip	Pigtail	Terminal Strip	Terminal Strip
Tamper	N/A	No	No	No	Switch	Switch	No	No	Switch
Indoor/Outdoor	Indoor	Both	Both	Both	Both	Both	Both	Both	Both
Warranty	2 Years	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime

HID Proximity (125KHz) - Card / Tags

							
	ProxCard II	ISO Prox II	Duo Prox II	iCLASS Prox	Prox Key III	MicroProx Tag	ProxPass II
Part Number	HID-1326	HID-1386	HID-1336	HID-2120	HID-1346	HID-1391	HID-1351
Magnetic Stripe	No	No	Yes	Optional	No	No	No
Printable	No	Yes	Yes	Yes	No	No	No
Slot Punch	Vertical	Optional	Optional	Optional	No	No	No
Warranty	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	Lifetime	1 Year

Other Technology - Readers

	Magstripe		RF	Long Range		Iris	
							
Part Number	AX-5232	AX-5233	RF (868MHz) Reader	LR-2200	HID-U90	iCAM7101	iCAM7000
Output Format	Clock & Data	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand	Wiegand
Dimensions (mm)	113 x 42 x 35	113 x 42 x 35	116 x 44 x 22	203 x 203 x 28.6	231 x 231 x 70	178 x 211 x 64	178 x 211 x 64
Weight	300g	300g	150g	1.04Kg	1.2Kg	1.6Kg	1.6Kg
Power Requirement	5 - 16 Vdc	5 - 16 Vdc	12 Vdc	12 Vdc	12 - 24 Vdc	12 - 24 Vdc 2.0A	12 - 24 Vdc 2.0A
Current Requirement	50 mA	50 mA	200 mA	1A	400mA @ 12V	2A	2A
Termination	Pigtail	Pigtail	Pigtail	Pigtail	Terminal	Terminal	Terminal
Tamper	No	No	No	No	Optional	Yes	Yes
Indoor/Outdoor	Both	Both	Both	Both	Both	Indoor	Indoor
Warranty	1 Year	1 Year	2 Years	1 Year	2 Years	1 Year	1 Year

Other Technology - Credentials





									
	2 Button Transmitter (868 MHz)	4 Button Transmitter (868 MHz)	LR-2200 Windshield Tag	LR-2200 Hang Tag	LR-2200 Hang Tag	UHF	UHF/Mifare 4K	UHF/iCLASS 32K (16K/2)	UHF/iCLASS 32K (16K/16)
Part Number	AC-7302	AC-7304	AW-WS	AW-HT	AW-VT	HID-600	HID-603	HID-6013	HID-6014
Read Range	Up to 20 metres	Up to 20 metres	3 to 5 meters	3 to 5 meters	3 to 5 meters	N/A			
Printable	N/A	N/A	No	No	No	Yes			
Slot Punch	N/A	N/A	No	No	No	No			
Warranty	2 Years	2 Years	1 Year	1 Year	1 Year	Lifetime			



Fingerprint Readers

	 MorphoSmart MSO-I300	 MorphoSmart MSO-330	 Sigma Extreme	 Sigma Wide	 Sigma Lite	 Sigma Lite Plus	 MorphoWave Compact XP	 MorphoWave Compact SP	 VisionPass	 VisionPass SP
Part Number (Bio only)	SG-293670362	SG-293670375	N/A	N/A	SG-293678615	N/A	N/A	N/A	N/A	N/A
Part Number with Mifare Reader	N/A	N/A	SG-293701737	SG-293638877	SG-293678636	SG-293678660	SG-293722301 (MIFARE/ DESFire)	SG-293777400 (MIFARE/ DESFire)	SG-293744571 (MIFARE/ DESFire)	SG-293803151
Part Number with HID iCLASS Reader	N/A	N/A	SG-293701729	SG-293638856	SG-293678628	SG-293673644	SG-293722319 (iCLASS/MIFARE/ DESFire/HID Prox)	SG-293777380 (iCLASS/MIFARE/ DESFire/HID Prox)	SG-293744604 (iCLASS/MIFARE/ DESFire/HID Prox)	SG-293793826
Part Number with HID Prox Reader	N/A	N/A	SG-293701740	N/A	SG-293673665	SG-293678678	SG-293771247 (iCLASS/MIFARE/ DESFire/HID Prox/Mobile)	SG-293777421 (iCLASS/MIFARE/ DESFire/HID Prox/Mobile)	SG-293767954 (iCLASS/MIFARE/ DESFire/HID Prox/Mobile)	N/A
Part Number with Mobile Access Reader	N/A	N/A	N/A	N/A	N/A	N/A	SG-293771247 (iCLASS/MIFARE/ DESFire/HID Prox/Mobile)	SG-293777421 (iCLASS/MIFARE/ DESFire/HID Prox/Mobile)	SG-293767954 (iCLASS/MIFARE/ DESFire/HID Prox/Mobile)	N/A
Users - Fingerprint Only	N/A	N/A	5000	5000	500	500	40,000	10,000	20,000	10,000
Users - Template on card	N/A	N/A	Unlimited (MIFARE or iCLASS only)				Unlimited (iCLASS, MIFARE and DESFire only)			
Expansion Option	N/A	N/A	Options for 10,000 / 50,000 / 100,000 users	Options for 10,000 / 50,000 / 100,000 users	Options for 3,000 / 10,000 users	Options for 3,000 / 10,000 users	100,000	N/A	40,000	N/A
Outdoor Use / IP Rating	No	No	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Identification Time	<1.2 sec	<1.2 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.0 sec	<1.0sec	<1.0sec	<1.0 sec
Dimensions (mm)	70 x 40 x 15	90 x 80 x 55	301 x 142 x 97	153 x 151 x 58.5	156 x 68 x 62	156 x 68 x 62	250x152x216	250x152x216	325x143x110	210 X 102 X 35
Weight	100g	200g	1.6Kg	470g	280g	280g	2.2Kg	2.2Kg	2.1kg	0.8kg
Power Requirements	5v / USB	5v / USB	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	12 – 24Vdc 1A	12 to 24 V DC (2.5A min @12V)	12 to 24 V DC (2.5A min @12V)	12 to 24 V DC (3A min @12V)	12 to 24 V DC (2.5A min @12V)
Power Over Ethernet	N/A	N/A	Yes	Yes	Yes	Yes	PoE+	PoE+	N/A	PoE+
Onboard Relay Output	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wiegand Output	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OSDP	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	2 Year (warranty extension options for 1 and 3 years)									

Card Printers

	Magicard		Fargo				
							
	300	600	DTC1250e	DTC4250e	DTC4500e	HDP5000	HDP6600
Base Part Number	3300-0001/3	3652-5001/3	FG-50000	FG-52000	FG-55000	FG-89600	FG-94600
Print Method	Colour dye sublimation	Colour dye sublimation	Dye-sublimation	Dye-sublimation	Dye sublimation	Retransfer	Resin Thermal Transfer
Print Speed	23 seconds per card	19 seconds per card	16 seconds YMCKO single side	16 seconds YMCKO single side	16 seconds YMCKO single side	Up to 29 seconds YMCK with transfer, single side	Up to 16 seconds YMCK with transfer, single side
Input Hopper	100	100	100	100	200	100	100
Output Hopper	70	70	FG-50000: Up to 30 cards FG-50100: Up to 100 cards	100	100	200	200
Reject Hopper	No	No	N/A	100	100	N/A	N/A
Double Sided	Option	Option	FG-50100	FG-52100	FG-55100	FG-89640	Optional
Lamination	No	No	No	No	Optional card lamination module – single-sided or dual-sided (simultaneous)	Optional card lamination module – single-sided or dual-sided (simultaneous)	Optional
Encoding Options	Encoders for magstripe and Smart cards available	Encoders for magstripe and Smart cards available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoders for magstripe and Smart cards are available	Encoder for magstripe and Smart cards are available
Simultaneous Printing & Encoding	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Interface	USB 2.0, USB 3.0 and Ethernet	USB 2.0, USB 3.0, Ethernet and WiFi	USB Ethernet: FG-50020 / FG-50120	USB and Ethernet	USB and Ethernet	Ethernet	USB and Ethernet
Card Sizes	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80/CR-79	CR-80	CR-80
Printer / Printhead Warranty	3 years	3 years	3 Years / 3 Years	3 Years / 3 Years	3 Years / 3 Years	3 Years / Lifetime	3 Years / Lifetime
Card Cleaning	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Integrated Card Cleaning Roller	Replaceable Cleaning Roller
Dimensions (mm) H x W x D	242 x 215 x 408	248 x 211.5 x 475.5	Single-sided: 224 x 348 x 201 Dual-sided : 249 x 475 x 234	Single-sided: 249 x 460 x 234 Dual-sided: 249 x 475 x 234	Single-sided: 249 x 460 x 234 Dual-sided: 249 x 475 x 234 Printer + Lam: 480 x 475 x 234	Single Sided: 292 x 311 x 235 Dual Sided: 292 x 394 x 235 Dual Sided + Lam: 324 x 762 x 235	Single Sided: 330 x 368 x 305 Dual Sided: 330 x 502 x 305

Standalone Access Control Units

	 Keypad Prox	 All-in-One Mullion	 All-in-One Vandal	 All-in-One Panel Mount	 All-in-One RF Receiver	 Solo Mullion	 Solo Vandal	 Solo Panel Mount
Part Number	KP-800	AC-3100	AC-3101	AC-3102	AC-7200	AC-3210	AC-3210-V	AC-3210-P
Prox Reader Included	Yes	Yes	Yes	Yes	N/A	Yes	Yes	Yes
Max Number of Users	1000	30	30	30	10 (unique)	999	999	999
Max Number of Doors	1	1	1	1	1	1	1	1
Max Number of Readers	1	1	1	1	N/A	2	2	2
Master Card Programming	No	Yes	Yes	Yes	No	Yes	Yes	Yes
Door Monitoring Alarm	Yes	No	No	No	No	Yes	Yes	Yes
Fire Alarm Input	No	No	No	No	No	Yes	Yes	Yes
Lock Relay Modes	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse or Latch	Pulse	Pulse	Pulse
Aux Relay for Alarm	Yes	No	No	No	No	Yes	Yes	Yes
Time Schedules	No	No	No	No	No	No	No	No
Access Event Log	No	No	No	No	No	No	No	No
Web Browser Interface	No	No	No	No	No	No	No	No
Dimensions (mm)	120 x 76 x 20	120 x 42 x 22	93 x 93 x 26	60 x 60 x 16	64 x 70 x 34	Cont: 150 x 100 x 30 Reader: 75 x 40 x 14	150 x 100 x 30 93 x 93 x 26	150 x 100 x 30 60 x 60 x 16
Power Requirement	12vdc 50mA	12vdc 100mA	12vdc 100mA	12vdc 100mA	12/24v 35mA	12vdc 700mA	12vdc 700mA	12vdc 700mA
Warranty	1 Year	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years	2 Years
Cards / Tags	Controlsoft Proximity. Most popular tag is AC-7101				868MHz RF Transmitter	Controlsoft Proximity. Most popular tag is AC-7101		

Additional readers for Solo Controller

AC-3212 Vandal Resistant Reader



Marine Grade 316 Stainless Steel for outdoor use.

AC-3213 Panel Mount Reader



Industry Standard mounting footprint

AC-3214 Mullion Reader



Versatile and attractive

Experts in Access Control, focussed on Excellence

Controlsoft have over 30 years experience in the development, manufacture and distribution of Access Control Solutions.

We are experts in our industry sector and offer a comprehensive range of access control solutions that are not only price competitive but easy for both our partners to install and their end user customers to manage.

With over 10,000 systems in daily use around the world, we are reliable and committed to excellence in our products, customer service and support.

In addition to our own products, we distribute many third party products in order to deliver the complete solution to our partners. These include HID (Readers, Credentials and Fargo card printers), Idemia (Morpho Fingerprint Readers), Third Millennium (Readers) and Iris ID (Iris Readers).

Controlsoft believe in long term partnerships with both our Customers and Suppliers.

Please visit our website www.controlsoft.com for the most up-to-date datasheets and installation guides for all our products.

All iNet controllers are manufactured in the UK to ISO9001:2015. iNet controllers with a US prefix meet the requirements of UL294



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